

ABSTRACT OF THE DISCLOSURE

An array antenna system with an electrically large array antenna comprises first and second antenna subarrays and, a combination line network, which has an input for receiving an antenna line signal and outputs connected with the first and second antenna subarrays. The combination line network contains a phase shifting device for generating a phase displacement between output signals of the first output and of the second output before their feeding to the antenna subarrays; and devices are provided to compensate the phase displacement in the beam path of the antenna radiation emitted by the antenna subarrays.

TOP SECRET DISCLOSURE